

# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Adriano Maurício de Almeida Côrtes**, **Universidade Federal do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

A handwritten signature in black ink, appearing to read "Luiz Velho".

Luiz Velho  
Organizing Committee

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September to November, 2011



We hereby certify that, **Aldo René Zang**, Instituto de Matemática Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

Luiz Velho  
Organizing Committee

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September to November, 2011



We hereby certify that, **Allyson, Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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We hereby certify that, **André Maximo**, Instituto de Matematica Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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We hereby certify that, **Anselmo Antunes Montenegro**, **Universidade Federal Fluminense**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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September to November, 2011



We hereby certify that, ***Carlos Eduardo Vaisman Muniz***, **Universidade Federal Fluminense**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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Luiz Velho  
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We hereby certify that, **Cesar Palomo**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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Luiz Velho  
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# Trimester Program on Computational Manifolds and Applications

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September to November, 2011



We hereby certify that, ***Chrystiano Barbosa de Souza Araújo***, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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We hereby certify that, **Claudio Silva, Polytechnic Institute of New York University**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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September to November, 2011



We hereby certify that, ***Dalia Melissa Bonilla Correa***, Instituto de Matemática Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

A handwritten signature in black ink, appearing to read "Luiz Velho", is positioned above the name and title.

Luiz Velho  
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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, ***Daniel dos Santos Marques***, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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We hereby certify that, **Dianna Xu, Bryn Mawr College**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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We hereby certify that, **Diego Nehab**, Instituto de Matemática Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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We hereby certify that, ***Dimas Martínez Morera***, **Universidade Federal de Alagoas**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, ***Djalma Lúcio Soares da Silva***, Instituto de Matemática Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, ***Douglas Cedrim Oliveira***, **Inst. de Ciências Matemáticas e de Computação**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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September to November, 2011



We hereby certify that, **Emilio Ashton Vital Brazil, University of Calgary**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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September to November, 2011



We hereby certify that, **Erwan Renault, Instituto de Matemática Pura e Aplicada**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, ***Esdras Soares de Medeiros Filho***, **Universidade Federal do Ceará**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, ***Fabian Andres Prada Nino***, Instituto de Matematica Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Felipe Moura de Carvalho**, Programa de Engenharia de Sistemas e Computação, Coppe/UFRJ, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Fernando Ferrari de Goes, California Institute of Technology**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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September to November, 2011



We hereby certify that, **Francisco I. S. Ganacim**, Instituto de Matemática Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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Luiz Velho  
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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Francisco Jose Benavides Murillo**, Instituto de Matematica Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Geovan Tavares**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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Luiz Velho  
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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Javier Lezama**, **Facultad de Matemática, Astronomía y Física**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Jorge Stolfi, Unicamp - Instituto de Computação**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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September to November, 2011



We hereby certify that, ***Juliano Caldeira Kestenberg***, Instituto de Matemática Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Julio Lucio**, Instituto de Matematica Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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September to November, 2011



We hereby certify that, **Leandro Moraes Valle Cruz**, Instituto de Matematica Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Leonardo de Oliveira Carvalho**, Instituto de Matematica Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Leonardo Koller Sacht**, Instituto de Matematica Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, ***Lis Ingrid Roque Lopes Custódio***, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Lucas Medeiros Reis, Instituto de Matemática Pura e Aplicada**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Lucio Ladislao Rodriguez**, Instituto de Matematica Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Luiz Henrique de Figueiredo**, Instituto de Matematica Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Luiz Velho, Instituto de Matematica Pura e Aplicada**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Marcos Craizer**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, ***Maria de Andrade Costa e Silva***, Instituto de Matematica Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Mattia Natali**, **University of Bergen**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Pedro Grojsgold**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Ricardo Marroquim**, **Programa de Engenharia de Sistemas e Computação, Coppe/UFRJ**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Sinesio Pesco**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, **Taís de Sá Pereira**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, ***Tássio Knop de Castro***, Instituto de Matemática Pura e Aplicada, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

Rio de Janeiro, Brazil

September to November, 2011



We hereby certify that, ***Thales Miranda de Almeida Vieira***, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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# Trimester Program on Computational Manifolds and Applications

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September to November, 2011



We hereby certify that, **Thomas Lewiner**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

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We hereby certify that, **Vinícius Moreira Mello**, **Universidade Federal da Bahia**, participated in the event Trimester Program on Computational Manifolds and Applications during its seminar week, held at IMPA, Rio de Janeiro - RJ, from October 17 to 21, 2011.

Rio de Janeiro, October 21, 2011.

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